

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03181887  
PUBLICATION DATE : 07-08-91

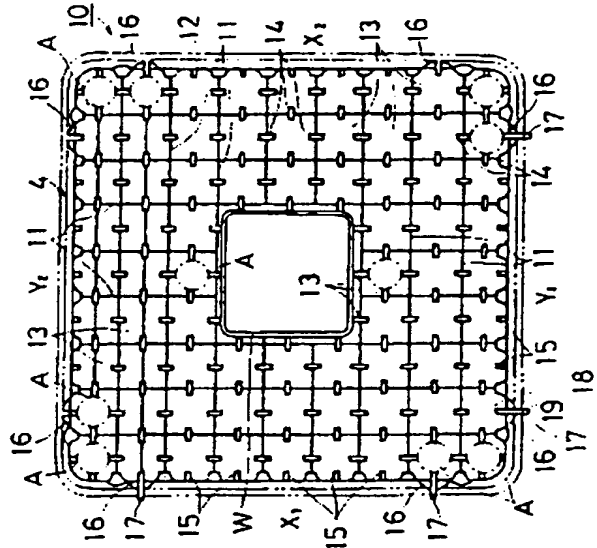
APPLICATION DATE : 12-12-89  
APPLICATION NUMBER : 01320686

APPLICANT : NUCLEAR FUEL IND LTD;

INVENTOR : NISHINO YUJI;

INT.CL. : G21C 3/34

TITLE : SPACER FOR REACTOR FUEL  
ASSEMBLY, AND FUEL ASSEMBLY



ABSTRACT : PURPOSE: To prevent the deterioration of a burnout-resistant characteristic of a corner rod and a side rod by reducing deviation of a water gap by providing a spacer with a projection.

CONSTITUTION: A spacer 10 of a channel box 4 has a construction wherein a plurality of cells 13 are formed by combining lattice plates 11 in the shape of a lattice and surrounded by a side plate 12, and fuel rods A are held in an arrangement of a square lattice therein. In this construction, a clip-type spring member 14 is fitted on the four sides of the cell 13, and one side of a clip is formed to be an elastic supporting projection, while the other side is formed to be a rigid supporting projection. Besides, clip-type spring members 15 having elastic supporting projections respectively are fitted to the side plate 12, while dimples 16 with longitudinal slits are provided in corner parts respectively. A clip-type spring member 17 is fitted to each dimple 16 and elastic supporting projections 18 and 19 are provided on the member 17. According to this constitution, a corner rod and a side rod at any positions are prevented from being located too near to the inner wall surface of the channel box 4 and a burnout-resistant characteristic can be improved.

COPYRIGHT: (C)1991,JPO&Japio